

1ST PRINTING—AR

**SEGA®**

# WONDER BOY

## INSTRUCTION MANUAL

FOR HORIZONTALLY  
MOUNTED MONITOR

**SEGA ENTERPRISES, INC.**

2149 PARAGON DR. SAN JOSE, CA 95131  
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MANUAL NO. 420-5295

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## **WARNING**

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of F.C.C. Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct this interference.

## CONVERSION KIT CONTENTS

PART NO.	Q/U	DESCRIPTION
834-5984-10	1	IC BD WONDER BOY ) ONE OF THESE
834-5984-16		IC BD WONDER BOY )
610-0001	1	ASSY 8 WAY JOYSTICK U/R
509-5123-01	2	SW PUSH BUTTON 1M WHITE
509-5123-02	2	SW PUSH BUTTON 1M RED
509-5123-03	2	SW PUSH BUTTON 1M YELLOW
421-6122	1	TV MASK SHEET
421-6327	2	STICKER CABINET SIDE WONDER BOY
423-0025	1	DESIGN PLATE WONDER BOY
422-0122-91	1	PLAY INSTR SH WONDER BOY
421-6187-91	1	CONTROL PANEL SHEET
SGB-3645X	1	WIRE HARN CONT PANEL
SGB-3620-3Y	1	WIRE HARN EXT USA
051-0005	4	FLANGE NUT M5
031-0520-B	4	CRG BLT-BLK M5×20
421-6307	1	ADJ & I/O INSTR SH WONDER BOY
421-5801-29	1	LICENSE SEAL WONDER BOY
117-5127-06	2	BUTTON INSTR PLATE JUMP
117-5127-07	2	BUTTON INSTR PLATE SPEED/ATTACK
916-3	1	WIRING DIAGRAM WONDER BOY
601-5214	4	L-LOCK
000-0310-F	4	M SCR PH W/F M3×10
420-5295	1	INSTRUCTION MANUAL ENG WONDER BOY
UC-0003	1	SHIELD BASE
UC-0004	1	SHIELD COVER
601-5525-100	1	BUSH 1.2 t
SGB-3722	1	WIRE HARN SHIELD EARTH
211-0167	2	TERM LUG RND ID 5
005-3516-F	6	W SCR RH W/F 3.5×16
010-0408-F	17	S-TITE SCR PH W/F M4×8
010-0310-F	4	S-TITE SCR PH W/F M3×10



## PREVENTION OF COUNTERFEITING AND CONVERSION

### LABELING

To prevent counterfeits and conversions, the following labels are put on all the SEGA products. When handling such goods, be sure to confirm the labels. They are used to prevent illegal acts such as the unauthorized copying of the products and the printed circuit boards thereof or carrying on business by manufacturing similar merchandise or by converting, selling or using such products or printed circuit boards.

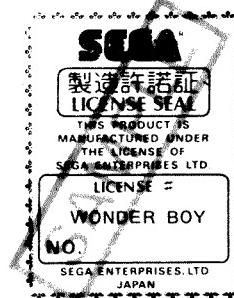
#### ORIGINAL SEAL

The following seal is put on the machines manufactured by SEGA.



#### LICENSE SEAL

The following seal is put on the kits, such as the printed circuit boards, of SEGA products.



#### COPYRIGHT NOTICE

This SEGA product has the copyright notice as follows:

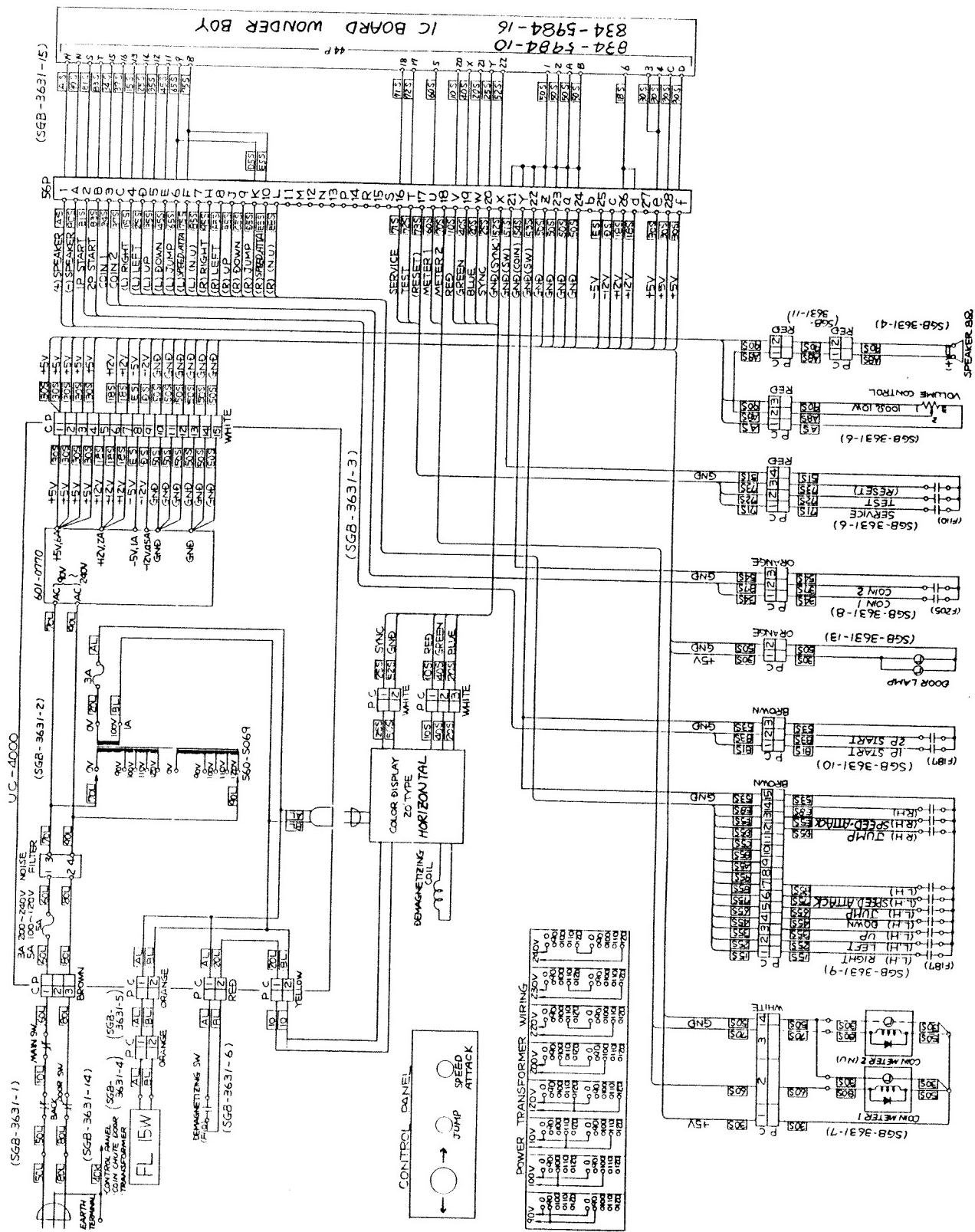
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This signifies that this work was disclosed in 1986 and is the property of SEGA ENTERPRISES, LTD.

## NOTICE WARNING

After installation of this kit , the 5 volt power supply must be checked and adjusted to make certain exactly 5 volts are present at pins 1 & 3 ( 1 is negative and 3 is positive ) of the 44 pin edge connector. The voltage check and adjustment must be done while the PCB is plugged in to the 44 pin connector to supply the proper load. This PCB will not operate properly on voltages below 5 volts as measured at the board.

## WIRING DIAGRAM

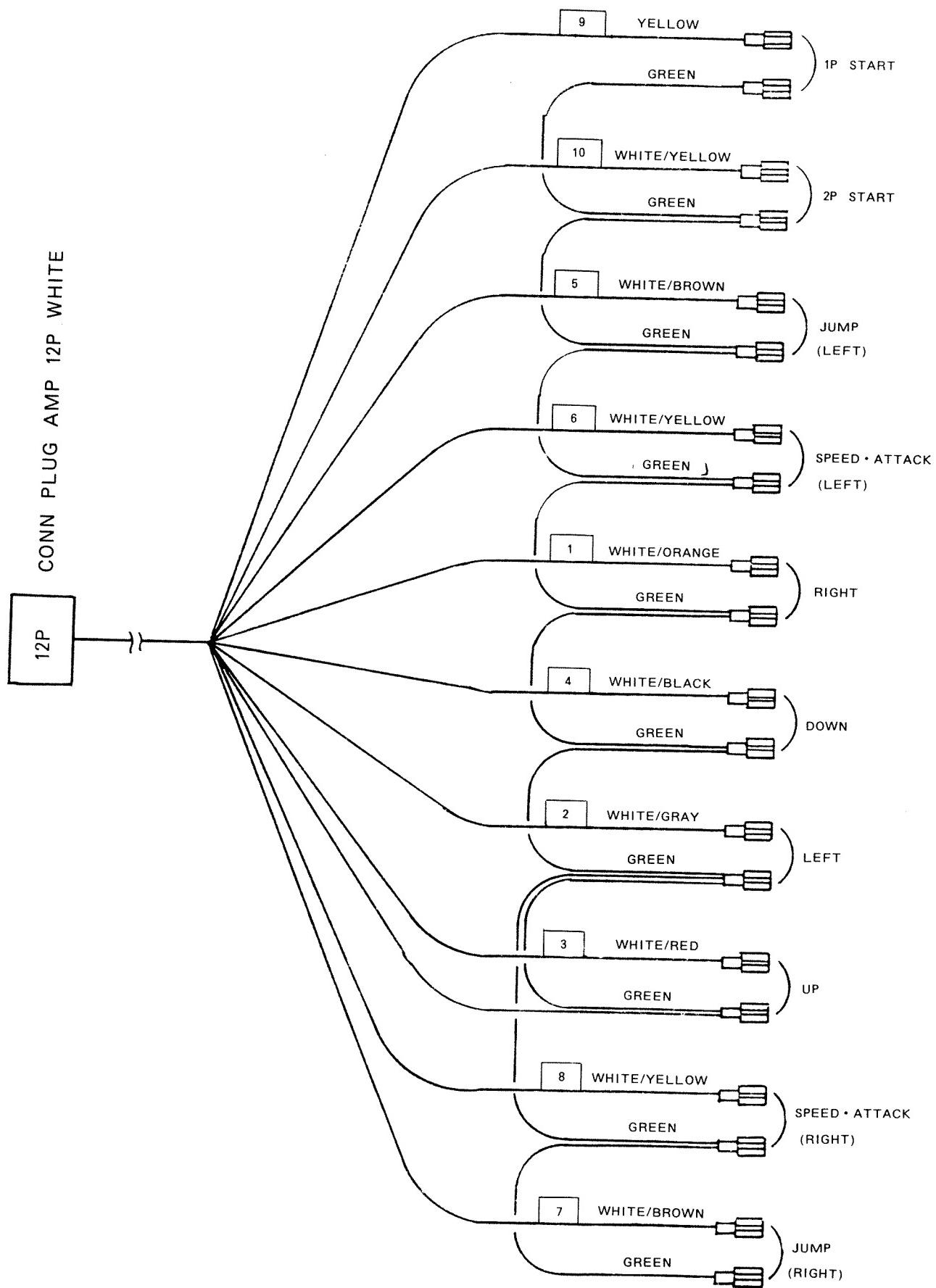


## WIRING ROUTING (MAIN HARNESS)

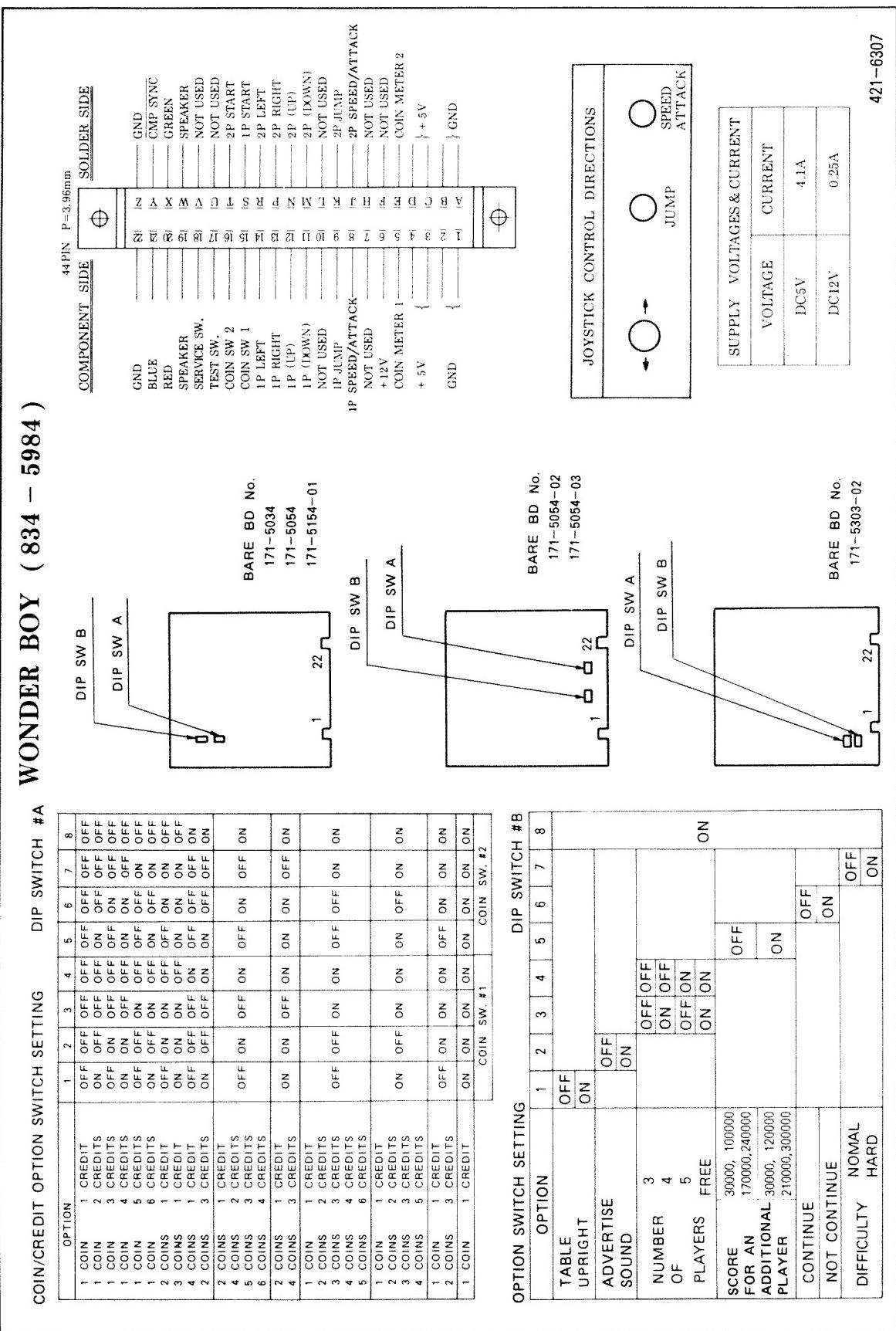
DESTINATION	WIRE ID #	SIGNAL NAME	44 PIN EDGE CONNECTOR	WIRE COLOR
POWER SUPPLY GND/RETURN	1	GND	1	GRN
POWER SUPPLY +5V	2	GND	A	GRN
COIN METER 1	3	GND	2	GRN
COIN METER 2	4	GND	B	GRN
JOYSTICK RIGHT SWITCH	5	+5V	C	RED
JOYSTICK LEFT SWITCH	6	+5V	D	RED
JOYSTICK UP SWITCH	7	+5V	E	RED
JOYSTICK DOWN SWITCH	8	+5V	F	RED
JUMP	9	COIN METER 1	G	GRY
PUSH BUTTON SPEED • ATTACK	10	COIN METER 2	H	GRY/YEL
PUSH BUTTON	11	+12V	I	ORG
1P START BUTTON	12		J	
2P START BUTTON	13		K	
COIN MECH 1	14		L	
COIN MECH 2	15		M	
TEST MODE SWITCH	16		N	
SERVICE SWITCH	17		O	
SPEAKER	18		P	
RED	19		Q	
GREEN	20		R	
MONITOR	21		S	
BLUE	22		T	
COMP, SYNC	23		U	
GND (SYNC)			V	
GND			W	
			X	
			Y	
			Z	

CONN CAP AMP 12P WHITE

## WIRING ROUTING (CONTROL PANEL HARNESS)



## OPTION SWITCHES/DC POWER REQUIREMENTS



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